ABSTRACT

OPTICAL DOUBLE FEED DETECTION

In an apparatus ~~(1)~~ for processing banknotes or other sheet-like objects, the banknotes are conveyed along a transport path ~~(3)~~, thereby passing sensor means ~~(5)~~. A transmission and a reflection image of the banknote are captured by illuminating the banknotes and measuring the transmittive and reflective light intensity of light with a high resolution. Based on these images, a validation ~~(6)~~ of the banknotes is carried out. After the validation, a double feed detection ~~(7)~~ is performed by evaluating the transmission and the reflection intensities for a predefined set of test spots with a two-dimensional evaluation. If it is decided on double feed, the banknotes are rejected ~~(3.1)~~. Otherwise the banknotes are accepted and further processed ~~(3.2)~~. Because of the additional dimension in the evaluation compared with known double detection methods, the invention enables a more robust double note detection also in cases with different degrees of soiling of the banknotes.